

ABSTRACT OF THE DISCLOSURE

An external mount tire pressure sensor system which substantially reduces the effect of centrifugal force on tire pressure measurements. A sensor has a main guide body portion with two parallel leg portions each having a central bore. A slider element is slidably mounted in each leg portion, and the two slider elements are mechanically connected for translatable movement in unison. A spring urges the slider elements to a neutral position. The sensor attaches to a tire valve stem. Gas from a tire encounters one of the slider elements and urges it in opposition to the spring force. The differential interconnection between the two slider elements cancels out the effect of the centrifugal force when the wheel rotates. A stiff flexible wall section enables the axis of the sensor to be aligned with the wheel radius to optimize performance.